Satoru Yamamoto

List of Publications by Year
in descending order

63	1,344	361413	345221
papers	citations	20 h-index	36 g-index

64	64	64	1145
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis Based on Onboard Lamp and Lunar Vicarious Calibrations for Sensitivity Degradation of a Hyperspectral Sensor. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	1
2	Global Distribution and Geological Context of Coâ€Existing Occurrences of Olivineâ€Rich and Plagioclaseâ€Rich Materials on the Lunar Surface. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	2
3	Multi-band bottom index: A novel approach for coastal environmental monitoring using hyperspectral data. Remote Sensing Applications: Society and Environment, 2022, 27, 100797.	1.5	0
4	Initial Analysis of Spectral Smile Calibration of Hyperspectral Imager Suite (HISUI) Using Atmospheric Absorption Bands. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	2
5	Characterization of Dâ€Type Spectra Based on Hyperspectral Remote Sensing of the Lunar Surface. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	2
6	Initial Onboard Calibration Results of the HISUI Hyperspectral Sensor. , 2021, , .		4
7	Global classification of lunar reflectance spectra obtained by Kaguya (SELENE): Implication for hidden basaltic materials. Icarus, 2019, 321, 407-425.	2.5	8
8	Spaceâ€Weathered Anorthosite as Spectral Dâ€Type Material on the Martian Satellites. Geophysical Research Letters, 2018, 45, 1305-1312.	4.0	8
9	Impact velocity dependence of transient cratering growth. Journal of Geophysical Research E: Planets, 2017, 122, 1077-1089.	3.6	12
10	An Automated Method for Crater Counting Using Rotational Pixel Swapping Method. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4384-4397.	6.3	10
11	Evidence of impact melt sheet differentiation of the lunar South Poleâ€Aitken basin. Journal of Geophysical Research E: Planets, 2017, 122, 1672-1686.	3.6	22
12	Observation planning algorithm of a Japanese space-borne sensor: Hyperspectral Imager SUIte (HISUI) onboard International Space Station (ISS) as platform. , 2017, , .		0
13	Mission Concepts of Unprecedented Zipangu Underworld of the Moon Exploration (UZUME) Project. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pk_147-Pk_150.	0.2	5
14	Case studies for observation planning algorithm of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). Proceedings of SPIE, 2016, , .	0.8	0
15	Development of an application scheme for the SELENE/SP lunar reflectance model for radiometric calibration of hyperspectral and multispectral sensors. Planetary and Space Science, 2016, 124, 76-83.	1.7	33
16	Global occurrence trend of high-Ca pyroxene on lunar highlands and its implications. Journal of Geophysical Research E: Planets, 2015, 120, 831-848.	3.6	13
17	Detection of large point sources of carbon dioxide by a satellite hyperspectral camera. , 2015, , .		0
18	Featureless spectra on the Moon as evidence of residual lunar primordial crust. Journal of Geophysical Research E: Planets, 2015, 120, 2190-2205.	3.6	13

#	Article	IF	Citations
19	Crater-ray formation by impact-induced ejecta particles. Icarus, 2015, 250, 215-221.	2.5	18
20	Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 710-723.	6.3	5
21	Observation planning algorithm of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). , 2014, , .		0
22	Geologic structure generated by largeâ€impact basin formation observed at the South Poleâ€Aitken basin on the Moon. Geophysical Research Letters, 2014, 41, 2738-2745.	4.0	49
23	Effective observation planning and its simulation of a Japanese spaceborne sensor: Hyperspectral imager suite (HISUI). , 2014, , .		3
24	Calibration of NIR 2 of Spectral Profiler Onboard Kaguya/SELENE. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6882-6898.	6.3	14
25	Variation of the lunar highland surface roughness at baseline 0.15â€“100â€‰km and the relationship to relative age. Geophysical Research Letters, 2014, 41, 1444-1451.	4.0	11
26	One Moon, many measurements 1: Radiance values. Icarus, 2013, 226, 951-963.	2.5	24
27	One Moon, many measurements 2: Photometric corrections. Icarus, 2013, 226, 127-139.	2.5	33
28	An explanation of bright areas inside Shackleton Crater at the Lunar South Pole other than waterâ€ice deposits. Geophysical Research Letters, 2013, 40, 3814-3818.	4.0	23
29	Usability of lunar reflectance model based on SELENE/SP for planned HISUI radiometric calibration. , 2013, , .		1
30	A formation mechanism for concentric ridges in ejecta surrounding impact craters in a layer of fine glass beads. Icarus, 2013, 225, 298-307.	2.5	5
31	Observation planning and its coverage simulation of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). , 2013, , .		2
32	A new type of pyroclastic deposit on the Moon containing Feâ€spinel and chromite. Geophysical Research Letters, 2013, 40, 4549-4554.	4.0	38
33	Dust mantle of comet 9P/Tempel 1: dynamical constraints on physical properties. Astronomy and Astrophysics, 2013, 550, A72.	5.1	12
34	USage of cloud climate data in operation misson plan simulation for Japanese future hyperspectral and multispectral senor: HISUI. , 2012, , .		2
35	Observation planning strategy of a Japanese spaceborne sensor: hyperspectral imager suite (HISUI). Proceedings of SPIE, 2012, , .	0.8	0
36	Asymmetric crustal growth on the Moon indicated by primitive farside highland materials. Nature Geoscience, 2012, 5, 384-388.	12.9	79

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37	Compositional evidence for an impact origin of the Moonâ€™s Procellarum basin. Nature Geoscience, 2012, 5, 775-778.	12.9	45
38	Olivine-rich exposures in the South Pole-Aitken Basin. Icarus, 2012, 218, 331-344.	2.5	57
39	Massive layer of pure anorthosite on the Moon. Geophysical Research Letters, 2012, 39, .	4.0	102
40	Preflight and In-Flight Calibration of the Spectral Profiler on Board SELENE (Kaguya). IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4660-4676.	6.3	35
41	The widespread occurrence of high-calcium pyroxene in bright-ray craters on the Moon and implications for lunar-crust composition. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	18
42	Operation planning for Japanese future hyperspectral and multispectral senor: HISUI and usage of cloud climate data. , 2011, , .		2
43	Simulation of operation of future Japanese spaceborne hyperspectral imager: HISUI. , 2011, , .		3
44	Lunar photometric properties at wavelengths 0.5â€“1.6 Î¼m acquired by SELENE Spectral Profiler and their dependency on local albedo and latitudinal zones. Icarus, 2011, 215, 639-660.	2.5	86
45	Deriving the Absolute Reflectance of Lunar Surface Using SELENE (Kaguya) Multiband Imager Data. Space Science Reviews, 2010, 154, 57-77.	8.1	67
46	Possible mantle origin of olivine around lunar impact basins detected by SELENE. Nature Geoscience, 2010, 3, 533-536.	12.9	184
47	Collisional process on Comet 9/P Tempel 1: Mass loss of its dust and ice by impacts of asteroidal objects and its collisional history. Earth, Planets and Space, 2010, 62, 5-11.	2.5	4
48	Ice sublimation of dust particles and their detection in the outer solar system. Earth, Planets and Space, 2010, 62, 57-61.	2.5	9
49	An empirical model for transient crater growth in granular targets based on direct observations. Icarus, 2009, 203, 310-319.	2.5	20
50	Ultramafic impact melt sheet beneath the South Poleâ€“Aitken basin on the Moon. Geophysical Research Letters, 2009, 36, .	4.0	61
51	Comet 9P/Tempel 1: Interpretation with theDeep ImpactResults. Astrophysical Journal, 2008, 673, L199-L202.	4.5	11
52	Non-intrusive measurements of crater growth. Icarus, 2007, 188, 506-521.	2.5	38
53	Transient crater growth in granular targets: An experimental study of low velocity impacts into glass sphere targets. Icarus, 2006, 183, 215-224.	2.5	43
54	Surface roughness of alumina fragments caused by hypervelocity impact. Planetary and Space Science, 2006, 54, 212-215.	1.7	4

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55	Velocity distributions of high-velocity ejecta from regolith targets. Icarus, 2005, 178, 264-273.	2.5	15
56	Small bodies and dust in the outer solar system. Advances in Space Research, 2004, 34, 172-178.	2.6	5
57	Measurement of Impact Ejecta from Regolith Targets in Oblique Impacts. Icarus, 2002, 158, 87-97.	2.5	20
58	Suppression of Pulmonary Antibacterial Defenses Mechanisms and Lung Damage in Mice Exposed to Fluoride Aerosol. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2001, 62, 485-494.	2.3	16
59	High-Temperature Effects on Antibody Response to Viral Antigen in Mice.. Experimental Animals, 1999, 48, 9-14.	1.1	11
60	Thermal radiation from dust grains in Edgeworth-Kuiper Belt. Earth, Planets and Space, 1998, 50, 531-537.	2.5	8
61	Velocity distribution of powdery ejecta. Advances in Space Research, 1997, 20, 1581-1584.	2.6	2
62	Velocity Measurements of Impact Ejecta from Regolith Targets. Icarus, 1997, 128, 160-170.	2.5	22
63	Orbital Evolution of the Lunar Ejecta. International Astronomical Union Colloquium, 1996, 150, 47-50.	0.1	0